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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/720,290	
	Filing Date	November 24, 2003	
	First Named Inventor	Arthur L. Boright	
	Art Unit		
	Examiner Name		
Total Number of Pages in This Submission	100+	Attorney Docket Number	BING-1-1037

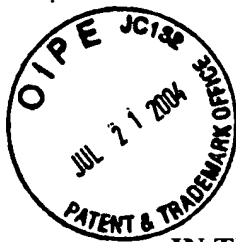
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Black Lowe & Graham PLLC
Signature	<i>Dale L. Boright</i> Reg. No. 40,498
Date	July 19, 2004

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This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Arthur L. Boright et al.

Attorney Docket No. BING-1-1037

Serial No.: 10/720,290

Group Art Unit:

Filing Date: November 24, 2003

Examiner:

Title: CLOUD COVER ASSESSMENT: VNIR-SWIR

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

COMMISSIONER FOR PATENTS


Pursuant to 37 C.F.R. § 1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information related to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. § 1.56(b).

In accordance with §1.97(b), since this Supplemental Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, or before the mailing date of a first Office Action on the merits of the above-identified application, no additional fee is required.

The relevant publications are listed on the attached Form PTO-1449 and are enclosed.

Respectfully submitted,

BLACK LOWE & GRAHAM<sup>PLLC</sup>

  
Dale C. Barr  
Registration No. 40,498  
Direct Dial: 206.957.2463

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**BLACK LOWE & GRAHAM<sup>LLC</sup>**

  
701 Fifth Avenue, Suite 4800  
Seattle, Washington 98104  
206 381 3300 • F: 206 381 3301

<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		<i>Complete if Known</i>		
		Application Number	10/720,290	
		Filing Date	November 24, 2003	
		First Named Inventor	Arthur L. Boright	
		Group Art Unit		
		Examiner Name		
Sheet	1	2	Attorney Docket Number	BING-1-1037

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code <sup>2</sup> (if known)		

### NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	1.	Ackerman, S. A., et al., "Discriminating Clear Sky From Clouds With MODIS," Journal of Geophysical Research, December 27, 1998, Vol. 103, No. D24, pp. 32,141-32,157.	
	2.	Adler-Golden, S.M., et al., "An Algorithm for De-Shadowing Spectral Imagery," presented at the AVIRIS Earth Sciences and Applications Workshop, at the NASA Jet Propulsion Laboratory (2002).	
	3.	Boardman, J. W., 1993, "Automating Spectral Unmixing of AVIRIS Data Using Convex Geometry Concepts," in: Summaries of the Fourth Annual JPL Airborne Geoscience Workshop, Washington, D.C., v. 1.	
	4.	Choi, K-Y., et al., "A Multispectral Transform for the Suppression of Cloud Shadows," presented at the Fourth International Airborne Remote Sensing Conf. and Exhibition/21 <sup>st</sup> Canadian Symposium on Remote Sensing, Ottawa, Ontario, Canada, 11-14 June 1999.	
	5.	Diner, D. J., et al., "Earth Observing System Multi-angle Imaging Spectro-Radiometer (MISR) Level 1 Cloud Detection Algorithm Theoretical Basis," Jet Propulsion Laboratory, California Institute of Technology, December 7, 1999, Vol. D-13397, Rev. B, pp 1-38.	
	6.	Gao, B-C., et al., "An Algorithm Using Visible and 1.38- $\mu$ m Channels to Retrieve Cirrus Cloud Reflectances from Aircraft and Satellite Data, IEEE Transactions on Geoscience and Remote Sensing, August 2002, Vol. 40, No. 8, pp. 1659-1668.	
	7.	Gao, B-C., and Kaufman, Y. J., "Selection of the 1.375- $\mu$ m MODIS Channel for Remote Sensing of Cirrus Clouds and Stratospheric Aerosols from Space," American Meteorological Society, Journal of the Atmospheric Sciences, December 1, 1995, Vol. 52, No. 23, pp. 4231-4237.	
	8.	Gao, B-C., et al., "Correction of Thin Cirrus Path Radiances in the 0.4-1.0 $\mu$ m Spectral Region Using the Sensitive 1.375 $\mu$ m Cirrus Detecting Channel," J. Geophy. Research, December 27, 1998, Vol. 103, No. D24, pp. 32,169-32,176.	
	9.	Goodman, A. H. and Henderson-Sellers, A., "Cloud Detection and Analysis: A Review of Recent Progress," Atmospheric Research, 1988, Vol. 21, Nos. 3-4, pp. 229-240.	

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<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				<i>Complete if Known</i>	
				Application Number	10/845,385
				Filing Date	May 13, 2004
				First Named Inventor	Arthur L. Boright
				Group Art Unit	
				Examiner Name	
Sheet	2	of	2	Attorney Docket Number	BOEI-1-1254

**NON PATENT LITERATURE DOCUMENTS (Cont.)**

10.	Gwinner, K., et al., "A Case Study on the Influence of Shadows and Shading on Multispectral Airborne Imaging Data," presented at the Third International Airborne Remote Sensing Conf. and Exhibition, July 7-10, 1997 Copenhagen, Denmark.	
11.	Irish, R.R., "Landsat 7 Automatic Cloud Cover Assessment, in Algorithms for Multispectral, Hyperspectral, and Ultraspectral Imagery VI," S. S. Chen, M. R. Descour, Editors, Proceedings of SPIE, 2000, Vol. 4049, pp. 348-355.	
12.	King, M. D., et al., "Discriminating Heavy Aerosol, Clouds, and Fires During SCAR-B: Application of Airborne Multispectral MAS Data," J. Geophy. Research, December 27, 1998, Vol. 103, No. D24, pp. 31,989-31,999.	
13.	Lissens, Gil, "Development of a Cloud, Snow and Cloud Shadow Mask for VEGETATION Imagery," in <i>Proc. Vegetation 2000: 2 Years of Operation to Prepare the Future Workshop</i> , G. Saint, Ed., Apr. 3-6, 2000, pp. 303-306.	
14.	Logar, A., et al., "A Hybrid Histogram/Neural Network Classifier for Creating Global Cloud Masks," International Journal of Remote Sensing, 1997, Vol. 18, No. 4, pp. 847-869.	
15.	Logar, A. M., et al., "The ASTER Polar Cloud Mask," IEEE Transactions of Geoscience and Remote Sensing, July 1998, Vol. 36, No. 4, pp. 1302-1312.	
16.	Milton, E. J., et al., "Cloud Shadow Suppression Using a Feature Space Approach to the Identification of Virtual Endmembers," Proceedings of 25 <sup>th</sup> Annual Conference and Exhibition of the Remote Sensing Society, Cardiff, UK (1999).	
17.	Rossow, W. B., et al., "Global, Seasonal Cloud Variations from Satellite Radiance Measurements. Part I: Sensitivity of Analysis," Journal of Climate, May 1989, Vol. 2, pp. 419-460.	
18.	Rossow, W. B., et al., "ISCCP Cloud Algorithm Intercomparison," Journal of Climate and Applied Meteorology, September 1985, Vol. 24, No. 9, pp. 877-903.	
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21.	Simpson, J. J., et al., "A Procedure for the Detection and Removal of Cloud Shadow from AVHRR Data Over Land," IEEE Transactions on Geoscience and Remote Sensing, Vol. 36, No. 3, pp. 880-897, May 1998.	
22.	Simpson, J. J., et al., "Cloud Shadow Detection Under Arbitrary Viewing and Illumination Conditions," IEEE Transactions on Geoscience and Remote Sensing, March 2000, Vol. 38, No. 2, pp. 972-976,	
23.	Varlyguin, D. L., et al., "Advances in Land Cover Classification for Applications Research: A Case Study from The Mid-Atlantic RESAC. Available at <a href="http://www.geog.umd.edu/resac">www.geog.umd.edu/resac</a> and on ASPRS-2001 CD-ROM in American Society for Photogrammetry and Remote Sensing (ASPRS) Conference Proceedings, Washington DC (2001).	
24.	Vermote, E. F., et al., "A SeaWiFS Global Monthly Coarse-Resolution Reflectance Dataset," International Journal of Remote Sensing, 2001, Vol. 22, No. 6, pp. 1151-1158.	
25.	Wang, B., et al., "Automated Detection and Removal of Clouds and their Shadows from Landsat TM Images," IEICE Trans., Inf. & Syst., Vol. E82-D, No. 2, February 1999.	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1. Applicant's unique citation designation number (optional). 2. See Kind Codes of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4. For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6. Applicant is to place a check mark here if English language translation is attached. AB indicates that only an English language abstract is attached. This collection of information is required by 37CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22315-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22315-1450